

JOB NO: 5025
DC 230

F/F
DIXIE
4/96

HER 01398

DESCRIPTION OF WORK PERFORMED IN CONNECTION

TOTAL HOURS

Over head

4-1-96

Sheet1

SIGNED

FREEMAN

CODED
AND
EXTENDED
BY

APPROVED
BY

HER 01400

FOREMAN'S DAILY TIME REPORT

DESCRIPTION OF WORK PERFORMED (BY FOREMAN)

TOTAL HOURS

JOB NO

DATE _____

CLASS NO.

Page: 1

Sheet1

BADGE
NO

NAME

Daniel Hernandez

Larry Ballinger

Ruben Najera

ia

Quantum

David Mercados

Pedro Arana

Sam De Hut

Claudio Duarte

Jose Casas

TOTAL HOURS

HER 01401

3NED

CODED
AND
EXTENDED

APPROVED
BY

FOREMAN

DESCRIPTION OF WORK PERFORMED BY FOREMAN

TOTAL HOURS

Page: 1

Sheet 1

Rosalio Perez
100-70-0004

TOTAL HOURS

SIGNED

CODED
AND
EXTENDED

APPROVED
BY

HER 01403

FOREMAN'S DAILY TIME REPORT

DESCRIPTION OF WORK PERFORMED (BY FOREMAN:

JOB NO.

DATE _____

CLASS NO.

Page:1

Sheet1

TOTAL HOURS

[illegible]

SIGNED

**CODED
AND
EXTENDED**

APPROVED
BY

HER 01404

DESCRIPTION OF WORK PERFORMED BY FOREMAN

JOB NO.

5025

DATE _____

4-26-96

CLASS NO.

DC 230

Yonkers and
Spartanburg

Page 1

Sheet1

TOTAL HOURS

[illegible]

HER 01405

IGNES

**CODED
AND
EXTENDED**

APPROVED
BY

FREEPORT TX.

III. Agreement to begin transfer. (158.120 (r))

DELIVERER	RECEIVER
/	/
/	/
/	/
/	/
/	/
/	/
/	/
/	/
/	/
/	/
/	/
/	/
N/A	N/A
N/A	N/A
N/A	N/A
/	✓
/	/
/	✓
/	✓
/	✓
/	/

HER 01406

Page 34

BARGE CLEANING REPORT

JOB NO. 5025
 BARGE NO. D.C. 230
 CUSTOMER DIPE CARVES
 PRODUCT Hydrochloric Acid

ETA _____
 DATE/TIME ARRIVAL _____
 DATE/TIME STARTED _____
 DATE/TIME COMPLETE _____

AMOUNT STRIPPED 29000

CLEANING INSTRUCTION BY: B. J. J. J.
 COMPLETION SCHEDULE BY: _____
 OVERTIME AUTHORIZED BY: _____
 BARGE INSPECTED BY: Chadler D. J. J. DATE/TIME: _____
 BARGE RELEASED TO: _____ DATE/TIME: _____
 DEEPWELL OPENED: YES NO 7/2 CLOSED BY _____ NEW GASKET YES NO
 BELOW DECK CARGO PIPELINE: BLIND OPEN YES 7/2 NO CLOSED BY _____ NEW GASKET _____
 DECK CHECK VALVE OPENED: YES 7/2 NO CLOSED BY _____ NEW GASKET YES _____ NO _____
 DECK HEADER BLINDS OPEN: YES INSPECTED BY CALEB BRETT YES _____ NO _____
 DECK HEADER DRAIN PLUG OPEN: YES NO CLOSED BY _____
 VAPOR RECOVERY HEADER OPENED: YES NO CLOSED BY _____ NEW GASKET YES _____ NO _____
 RUST SCALE: YES 7/2 NO WASHED OUT _____ BUCKETED OUT _____
 NUMBER OF CARGO TANKS 4
 CONDITION OF CARGO VALVES 2nd (REPLACED)
 SLOP TANK STRIPPED: YES 7/2 NO
 DRIP PANS STRIPPED: YES NO
 WEATHER: TEMP 82 RAIN _____ FOG _____ HUMIDITY _____ OVERCAST _____ CLOUDY _____ CLEAR YES
 PIPELINE WASHED: NO PIPELINE BLOWN NO INSPECTED BY CALEB BRETT
 BOW RAKE CHECKED: YES NO STERN RAKE: YES NO
 VOIDS: YES 7/2 NO SAFETY EQUIPMENT USED: _____
 SUMPS INSPECTED _____

NOTICE

All barges cleaned for BASF will be inspected by Caleb Brett. The inspector will have paperwork for the Hercules foreman in charge to sign. The form will put two copies in the document mail box. One copy will stay in the mailbox, and the captain of the tugboat that is picking up the barge will not be called until inspection is completed and documentation is in the mailbox. If any problems, BASF logistics representative must be contacted.

Inspected 7/1 1 Time In _____ Time Out _____
 Inspected By _____

NO BASF BARGE THAT HAS BEEN CLEANED WILL BE RELEASED UNTIL CALEB BRETT HAS SIGNED THE RELEASE PAPERS. CALEB BRETT WILL BE GIVEN A COPY OF THIS FORM.

HER 01407

HAZARD COMMUNICATION STANDARD

OSHA 1910.1200

EMPLOYEE HAZARDOUS MATERIALS TRAINING PROGRAM

Date 4-25-96

Plant Hercules Maine

Area the Fire Dock

Supervisor [Signature]

Client Safety

The following listed materials are considered to be hazardous to the employees working in this area:

Hydrochloric Acid

The employees assigned to work in this area have been informed of the hazardous materials in this area, the hazards they present to the workers, the location of hazards listed, the protective equipment that has been provided and where it is located, and procedures to be followed in case of an accidental exposure. I have received the training listed above and will so designate by signing this form.

NAME	BADGE	NAME	BADGE
<u>[Signature]</u>	<u>70</u>		
<u>[Signature]</u>			
<u>[Signature]</u>			



P.O. Drawer 0
Freeport, Texas 77541

Strength through experience, equipment, know-how

Office: (409) 233-6371
Fax: (409) 233-6375

FINAL CHECK LIST

DATE: 4-25-86

BARGE: D.C. 230

BLIND NUMBER CHECKED 2 REPLACED CASKET YES NO
CATE VALVE NUMBER CHECKED 2 REPLACED CASKET YES NO
PLUGS NUMBER CHECKED 2 REPLACED PLUG YES NO
* CHECK VALVE NUMBER CHECKED 2 REPLACED CASKET YES NO
DEEPWELL BLIND NUMBER CHECKED 2 REPLACED CASKET YES NO

BELOW DECK CARCO PIPELINE BLIND NUMBER N/A REPLACED CASKET YES NO

BELOW DECK CARCO PIPELINE BLIND REMOVED YES N/A NO NO

DRIP PANS VALVES: CLOSED BY Turn

DRIP PANS COVER: CLOSED BY Turn

CONTAINMENT ARE? PLUG OR VALVES: CLOSED BY N/A

AIR TEST CARCO LINE - 40psi - USING SOAP

SIGNATURE OF TESTER: Charles Duarte

WITNESS: Shura

- * CHECK VALVE CASKET WILL BE REPLACED
- * AIR TEST IS LAST THING TO BE DONE BEFORE RELEASING BARCE.

HER 01409



WHEATCULLES

MARINE SERVICES CORPORATION

Strength through environmental awareness and customer service

P.O. Drawer D
Pineport, Texas 77541

Office (409) 222-6371
Fax (409) 222-6372

EQUIPMENT	HOURS USED	HOURLY RATE	TOTAL PRICE
COMPRESSOR	22	44.00	
AIR MOVERS	52	5.00	
VACUUM	3	20.00	
BOILER		20.00	
HAND HOSE	3	10.00	
BUTTERWORTH		10.00	
2" STRIP PUMP	32	12.00	
3" DIESEL PUMP		14.00	
4" ELECT PUMP		15.00	
CRANE		130.00	
CHERRY PICKER		50.00	
FORKLIFT		20.00	
TUG BOAT		20.00	
WELD MACHINE		15.00	
CUTTING RIG		5.00	
WORK BARGE		35.00	
HAUL OUT		1100.00	

DATE: 11-25-94 JOB NO: 5025 BARGE NAME: D.C. 230

HER 01410

HERCULES

MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. :

3397

DATE :

April 30, 1996

Job No. :

5025

Location :

Freeport, TX

TO:

Dixie Linehaul
7747 Torn Drive
Baton Rouge, LA 70806

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms :

Net 30

FOR:

Service to the DC230 as follows:

Remove and replace all valves and 4 covers for inspection

Foreman	3 hr. @	38.00	114.00
Journeyman	18 hr. @	32.50	585.00
Total			699.00

Pump water out of bow, stern, and hopper

Journeyman	10 hr. @	32.50	325.00
Total			325.00

Weld all fractures; 18" x 18" plate

Journeyman	20 hr. @	32.50	650.00
Total			650.00

Pump out 25,000 gallons of water and acid

Wash out cargo tanks for Coast Guard inspection

Blow Dry

Foreman	5 hr. @	38.00	190.00
Journeyman	17 hr. @	32.50	552.50
Total			742.50

Assist Coast Guard.

Foreman	2 hr. @	38.00	76.00
Total			76.00

DISPOSAL:	Water	25,000	@	.35/gallon.	8,750.00
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PHONE: (409) 233-6371

HER 01411

Strength through Experience, Equipment, Know-How

HERCULES

MARINE SERVICES CORPORATION

P. O. Drawer O • Freeport, Texas 77541

INVOICE NO. :

DATE :

Job No. :

Location :

TO:

PLEASE REMIT PAYMENTS TO:
11011 RICHMOND
SUITE 500
HOUSTON, TX. 77042

Terms : Net 30

FOR:

EQUIPMENT:	Compressor	22	@	48.00	1,056.00
	Air Movers	52	@	5.00	260.00
	Vacuum	3	@	30.00	90.00
	Hand Hose	3	@	12.00	36.00
	2" strip pump	32	@	15.00	480.00

TOTAL AMOUNT DUE

\$13,164.50

PHONE: (409) 233-6371

HER 01412

Strength through Experience, Equipment, Know-How

3397

JOB WORKSCOPE/BREAKDOWN

JOB NO: 5025 CUSTOMER: Dixie BARCE: DE 230

FOREMAN:	S/T	<u>7</u>	@	38.00	\$ <u>266.00</u>
	O/T		@	53.25	
LEADMAN:	S/T		@	35.00	
	O/T		@	49.50	
JOURNEY:	SC	<u>105</u>	@	32.50	\$ <u>212.50</u>
	O/T		@	45.75	

DISPOSAL:	Stop Oil		@	.60	
	Water		@	.35	
WATER:	<u>25,000.00</u>	5.00 per 1,000 gals.			<u>8,750.00</u>
MATERIAL:	<u>1,000.00</u>	Chemist			<u>750.00</u>
STOCK:		Plus 25%			<u>150.00</u>
		Plus 25%			

EQUIPMENT:	Compressor	<u>22</u>	@	48.00	<u>1056.00</u>
	Air Movers	<u>52</u>	@	5.00	<u>260.00</u>
	Forklift		@	30.00	
	Tugboat		@	100.00	
	Steam rig		@	100.00	
	Vacuum	<u>3</u>	@	30.00	<u>90.00</u>
	Hand Hose	<u>3</u>	@	12.00	<u>36.00</u>
	Weld Machine		@	15.00	
	Cherry picker		@	70.00	
	Crane		@	130.00	
	3" gas pump		@	18.00	
	2" strip pump	<u>32</u>	@	15.00	<u>480.00</u>
	Butterworth		@	10.00	
	4" Elect. Pump		@	15.00	
	Cutting rig		@	8.00	
	Haul Out		@	1100.00	

ARRIVED: 11/1 COMPLETED: 11/1 DEPARTED: 11/1
 PRODUCT: 1 LOAD: 1

TOTAL INVOICE: 13,800.50

8750.00
 750
 9500

Remove & Replace all valves & cover
 For Inspect Hopper

Foreman 3 / hour
 Journey 18 / hour

Pump out water out of Bow, Stern and Hopper
 Foreman 10
 Journey 9 10

Weld all Flanges & - 18" x 18" plate
 Fore Journey 20 / hour.

Pump out 25,000 gal. Water & Acid mixed
 Wash it cargo Tanks For Coast Guard Inspection
 and Blow Dry

Foreman 5
 Journey 17
 Assist. coast Guard Foreman 2 / hour.
 E.V.

Compassion 22 hr. @ 48.00
 Air men 52 hr @ 5.00
 Upman 3 hr @ 30.00
 Hand Hoist 3 hr @ 12.00
 2" Strip Pape 32 hr @ 15.00
 Water 25,000 @ 3¢ / gal. Charge 750.00

HER 01414

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR

MARINE OPERATIONS FACILITY

ORDER No. 5025

CUSTOMER P.O. _____

DATE	ORDER PRINTED	ETA
	4/25/96	
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
	M/V <input type="checkbox"/> SARGENT	
	NAME <u>DC 230</u>	
	LOA	WIDTH
	FOREMAN	
	LAST PRODUCT <u>hydrochloric acid</u>	
	GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/>	CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>
	HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>	
	ON WAYS	DATE: _____
	ON WAYS	DATE: _____

CUSTOMER	NAME <u>Dixie</u>
	BILLING ADDRESS
	CITY AND STATE
	PHONE NUMBER
	WORK AUTHORIZED BY <u>Harvey</u>
	STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO
	IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET
	OUTSIDE SERVICES <input type="checkbox"/> YES <input type="checkbox"/> NO
	IF YES, LIST

ITEM NUMBERS

1 Pull dip pipe, undo valve and 90
Remove all 4 covers inspect hopper

2

3

4

5

6

7

8

9

10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 01415

HERCULES OFFSHORE CO.

INVOICE NO. _____

MARINE REPAIR

MARINE OPERATIONS FACILITY

CUSTOMER P.O. _____

ORDER No. 5025

DATE	ORDER NUMBER	ETA
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
M/V <input type="checkbox"/> BARGE <input checked="" type="checkbox"/>		
NAME DC 730		
LOA _____ WIDTH _____		
FOREMAN _____		
LAST PRODUCT Hydrochloric acid		
GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/> CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>		
HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>		
ON WAYS _____ DATE: _____		
ON WAYS _____ DATE: _____		

CUSTOMER	NAME Dixie
	BILLING ADDRESS _____
	CITY AND STATE _____
	PHONE NUMBER _____
WORK AUTHORIZED BY Harvey	
STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO	
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET	
OUTSIDE SERVICES <input type="checkbox"/> YES <input type="checkbox"/> NO	
IF YES, LIST _____	

ITEM NUMBERS

- 1 Pull dip pipe, undo valve and 90°
- Remove all 4 covers inspect nipple
- 2
- 3
- 4
- 5
- 6
- 7
- 8
- 9
- 10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: _____ Date: _____

HER 01416

John W. Sansing
1509 Kilgarlin Ln.
Deer Park, Tx. 77536

713-478-4091

MARINE CHEMIST CERTIFICATE

SERIAL NO. F 68271

Survey Requested by HELICOPTER MARINE Vessel Owner or Agent DOUG KIRBY Date 5-2-96
Vessel BARGE DC-230 Type of Vessel Cylindrical Tanks - Hopper BARGE Specific Location of Vessel Helicopter Slip
Last Three (3) Cargoes Hydrochloric Acid (3) Tests Performed Oxygen, Combustibles, HCl, Visual Time Survey Completed 7:50 PM

NOTES: (1) * Provide forced ventilation for entry and work in four (4) cargo tanks; Fed. Make; Steam Void *
(2) BARGE IS SAFE FOR IN-SHIPYARD SNIFFING.
(3) TEST RESULTS: (A) CARGO TANKS: 20.8% OXYGEN; ZERO% LEL;
2 ppm TO 4 ppm HCl
(B) VOIDS: 20.8% OXYGEN; ZERO% LEL;
NO HCl DETECTED.

Fed. Make; Hopper Spaces; Steam) * ENTER WITH RESTRICTIONS *
Void; AND FOUR (4) CARGO TANKS SAFE FOR HOT WORK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT: This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

*The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

John W. Sansing

Company

5-2-96

Date

Signed

John W. Sansing

Marine Chemist

Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

John W. Sansing
1509 Kilgarlin Ln.
Deer Park, Tx. 77536

713-478-4091

MARINE CHEMIST CERTIFICATE

SERIAL NO. F 68271

HERCULES MARINE DOW/KIRBY 5-2-96
Survey Requested by Vessel Owner or Agent Date
BARGE DC-230 Cylindrical Tanks - No. 1, 2, 3, 4, 5, 6, 7, 8, 9, 10, 11, 12, 13, 14, 15, 16, 17, 18, 19, 20, 21, 22, 23, 24, 25, 26, 27, 28, 29, 30, 31, 32, 33, 34, 35, 36, 37, 38, 39, 40, 41, 42, 43, 44, 45, 46, 47, 48, 49, 50, 51, 52, 53, 54, 55, 56, 57, 58, 59, 60, 61, 62, 63, 64, 65, 66, 67, 68, 69, 70, 71, 72, 73, 74, 75, 76, 77, 78, 79, 80, 81, 82, 83, 84, 85, 86, 87, 88, 89, 90, 91, 92, 93, 94, 95, 96, 97, 98, 99, 100, 101, 102, 103, 104, 105, 106, 107, 108, 109, 110, 111, 112, 113, 114, 115, 116, 117, 118, 119, 120, 121, 122, 123, 124, 125, 126, 127, 128, 129, 130, 131, 132, 133, 134, 135, 136, 137, 138, 139, 140, 141, 142, 143, 144, 145, 146, 147, 148, 149, 150, 151, 152, 153, 154, 155, 156, 157, 158, 159, 160, 161, 162, 163, 164, 165, 166, 167, 168, 169, 170, 171, 172, 173, 174, 175, 176, 177, 178, 179, 180, 181, 182, 183, 184, 185, 186, 187, 188, 189, 190, 191, 192, 193, 194, 195, 196, 197, 198, 199, 200, 201, 202, 203, 204, 205, 206, 207, 208, 209, 210, 211, 212, 213, 214, 215, 216, 217, 218, 219, 220, 221, 222, 223, 224, 225, 226, 227, 228, 229, 230, 231, 232, 233, 234, 235, 236, 237, 238, 239, 240, 241, 242, 243, 244, 245, 246, 247, 248, 249, 250, 251, 252, 253, 254, 255, 256, 257, 258, 259, 260, 261, 262, 263, 264, 265, 266, 267, 268, 269, 270, 271, 272, 273, 274, 275, 276, 277, 278, 279, 280, 281, 282, 283, 284, 285, 286, 287, 288, 289, 290, 291, 292, 293, 294, 295, 296, 297, 298, 299, 300, 301, 302, 303, 304, 305, 306, 307, 308, 309, 310, 311, 312, 313, 314, 315, 316, 317, 318, 319, 320, 321, 322, 323, 324, 325, 326, 327, 328, 329, 330, 331, 332, 333, 334, 335, 336, 337, 338, 339, 340, 341, 342, 343, 344, 345, 346, 347, 348, 349, 350, 351, 352, 353, 354, 355, 356, 357, 358, 359, 360, 361, 362, 363, 364, 365, 366, 367, 368, 369, 370, 371, 372, 373, 374, 375, 376, 377, 378, 379, 380, 381, 382, 383, 384, 385, 386, 387, 388, 389, 390, 391, 392, 393, 394, 395, 396, 397, 398, 399, 400, 401, 402, 403, 404, 405, 406, 407, 408, 409, 410, 411, 412, 413, 414, 415, 416, 417, 418, 419, 420, 421, 422, 423, 424, 425, 426, 427, 428, 429, 430, 431, 432, 433, 434, 435, 436, 437, 438, 439, 440, 441, 442, 443, 444, 445, 446, 447, 448, 449, 450, 451, 452, 453, 454, 455, 456, 457, 458, 459, 460, 461, 462, 463, 464, 465, 466, 467, 468, 469, 470, 471, 472, 473, 474, 475, 476, 477, 478, 479, 480, 481, 482, 483, 484, 485, 486, 487, 488, 489, 490, 491, 492, 493, 494, 495, 496, 497, 498, 499, 500, 501, 502, 503, 504, 505, 506, 507, 508, 509, 510, 511, 512, 513, 514, 515, 516, 517, 518, 519, 520, 521, 522, 523, 524, 525, 526, 527, 528, 529, 530, 531, 532, 533, 534, 535, 536, 537, 538, 539, 540, 541, 542, 543, 544, 545, 546, 547, 548, 549, 550, 551, 552, 553, 554, 555, 556, 557, 558, 559, 560, 561, 562, 563, 564, 565, 566, 567, 568, 569, 570, 571, 572, 573, 574, 575, 576, 577, 578, 579, 580, 581, 582, 583, 584, 585, 586, 587, 588, 589, 590, 591, 592, 593, 594, 595, 596, 597, 598, 599, 600, 601, 602, 603, 604, 605, 606, 607, 608, 609, 610, 611, 612, 613, 614, 615, 616, 617, 618, 619, 620, 621, 622, 623, 624, 625, 626, 627, 628, 629, 630, 631, 632, 633, 634, 635, 636, 637, 638, 639, 640, 641, 642, 643, 644, 645, 646, 647, 648, 649, 650, 651, 652, 653, 654, 655, 656, 657, 658, 659, 660, 661, 662, 663, 664, 665, 666, 667, 668, 669, 670, 671, 672, 673, 674, 675, 676, 677, 678, 679, 680, 681, 682, 683, 684, 685, 686, 687, 688, 689, 690, 691, 692, 693, 694, 695, 696, 697, 698, 699, 700, 701, 702, 703, 704, 705, 706, 707, 708, 709, 710, 711, 712, 713, 714, 715, 716, 717, 718, 719, 720, 721, 722, 723, 724, 725, 726, 727, 728, 729, 730, 731, 732, 733, 734, 735, 736, 737, 738, 739, 740, 741, 742, 743, 744, 745, 746, 747, 748, 749, 750, 751, 752, 753, 754, 755, 756, 757, 758, 759, 760, 761, 762, 763, 764, 765, 766, 767, 768, 769, 770, 771, 772, 773, 774, 775, 776, 777, 778, 779, 780, 781, 782, 783, 784, 785, 786, 787, 788, 789, 790, 791, 792, 793, 794, 795, 796, 797, 798, 799, 800, 801, 802, 803, 804, 805, 806, 807, 808, 809, 810, 811, 812, 813, 814, 815, 816, 817, 818, 819, 820, 821, 822, 823, 824, 825, 826, 827, 828, 829, 830, 831, 832, 833, 834, 835, 836, 837, 838, 839, 840, 841, 842, 843, 844, 845, 846, 847, 848, 849, 850, 851, 852, 853, 854, 855, 856, 857, 858, 859, 860, 861, 862, 863, 864, 865, 866, 867, 868, 869, 870, 871, 872, 873, 874, 875, 876, 877, 878, 879, 880, 881, 882, 883, 884, 885, 886, 887, 888, 889, 890, 891, 892, 893, 894, 895, 896, 897, 898, 899, 900, 901, 902, 903, 904, 905, 906, 907, 908, 909, 910, 911, 912, 913, 914, 915, 916, 917, 918, 919, 920, 921, 922, 923, 924, 925, 926, 927, 928, 929, 930, 931, 932, 933, 934, 935, 936, 937, 938, 939, 940, 941, 942, 943, 944, 945, 946, 947, 948, 949, 950, 951, 952, 953, 954, 955, 956, 957, 958, 959, 960, 961, 962, 963, 964, 965, 966, 967, 968, 969, 970, 971, 972, 973, 974, 975, 976, 977, 978, 979, 980, 981, 982, 983, 984, 985, 986, 987, 988, 989, 990, 991, 992, 993, 994, 995, 996, 997, 998, 999, 1000
Vessel Type of Vessel Specific Location of Vessel
Hydrochloric Acid (3) Oxygen, Combustibles, HCl, 7:50 PM
Last Three (3) Cargoes Tests Performed Time Survey Completed

NOTES: (1) * PROVIDE FORCED VENTILATION FOR ENTRY AND WORK
IN FOLK (4) CARGO TANKS; FOLK, WAKE; STEAM VOID *
(2) BARGE 13 SAFE FOR IN-SITUATED SHIFTING.
(3) TEST RESULTS: (4) CARGO TANKS: 20.8% OXYGEN; 2.0% LEL;
2.0% HCL
(5) VENTS: 20.8% OXYGEN; 2.0% LEL;
NO HCL DETECTED.

FOLK, WAKE; FOLK SPACES; STEAM * ENTERED WITH RESTRICTIONS *
VOID; AND FOLK (4) CARGO TANKS } SAFE FOR HOT WORK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

Name

Company

Date

Signed

Marine Chemist

Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U.S.A.

HER 01418

John W. Sansing
1509 Kilgarlin Ln.
Deer Park, Tx. 77536

713-478-4091

MARINE CHEMIST CERTIFICATE

SERIAL NO. F 68271

HERCULES MARINE DEER PARK 5-2-96
Survey Requested by KAROL DC-230 Vessel Owner or Agent
Vessel Cylindrical Tanks - Hopper BARGE Type of Vessel
Hydrochloric Acid (3) Oxygen, Combustibles; HCl; Specific Location of Vessel
Last Three (3) Cargoes USUAL Time Survey Completed 7:50 PM

NOTES: (1) * PROVIDE FORCED VENTILATION FOR ENTRY AND WORK
IN FOUR (4) CARGO TANKS; MID. HALL; STEAM VOID *
(2) BARGE IS SAFE FOR IN-SITUATED SHIFTING.
(3) TEST RESULTS: (A) CARGO TANKS: 20.8% OXYGEN; ZERO% LEL;
2 ppm HCl
(B) VOID: 20.8% OXYGEN; ZERO% LEL;
NO HCl DETECTED.

FEED HALL; HOPPER SPACES; STEAM * ENTRY WITH RESTRICTIONS *
VOID; AND FOUR (4) CARGO TANKS } AIR FOR HOT WORK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTRY WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

[Signature]

Company

5-2-96

Date

Signed

[Signature]

Marine Chemist

Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U.S.A.

HER 01419

John W. Sansing
1509 Kilgarlin Ln.
Deer Park, Tx. 77536

713-478-4091

MARINE CHEMIST CERTIFICATE

SERIAL NO. F 68271

Survey Requested by HERCULES MARINE Vessel Owner or Agent DEER PARK Date 5-2-96
Vessel KARAK DC-230 Type of Vessel Cylindrical Tanks - Hopper Barge Specific Location of Vessel HERCULES 11/2
Last Three (3) Cargoes HYDROCHLORIC ACID(3) Tests Performed OXYGEN, COMBUSTIBILITIES, HCl, VISCOSITY Time Survey Completed 7:50 PM

NOTES: (1) *provide forced ventilation for entry and work in FOUK (4) CARGO TANKS; HOD, HARK; STEAM VOID *
(2) BARGE IS SAFE FOR IN-SHEDYARD SHIFTING.
(3) TEST RESULTS: (A) CARGO TANKS: 20.8% OXYGEN; ZERO LEL;
2 ppm HCl
(B) VOIDS: 20.8% OXYGEN; ZERO LEL;
NO HCl DETECTED.

FOD, HARK; HODPAEL SPACES; STEAM *ENTERED WITH RESTRICTIONS*
VOID; AND FOUK (4) CARGO TANKS } SAFE FOR HOT WORK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit; or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

[Signature]

Company

5-2-96

Date

Signed

[Signature]

Marine Chemist

Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-86

Printed in U.S.A.

HER 01420

John W. Sansing
1509 Kilgarlin Ln.
Deer Park, Tx. 77536

MARINE CHEMIST CERTIFICATE

SERIAL NO. F 68267

Survey Requested by: HERCULES MARINE Vessel Owner or Agent: DDW/Kinsky Date: 4-30-96
Vessel: KRAGE DC-230 Type of Vessel: Cylindrical Tank Hopper/Barge Specific Location of Vessel: SLY'S DOCK
Last Three (3) Cargoes: NUCLOCHLORIC ACID (B) Tests Performed: ORPHEAN COMBUSTIBLES; HCL; Time Survey Completed: 2:50 PM

NOTES: (1) Tank (4) Cylindrical/ Cargo Tanks require additional ventilation - HCL concentration > 30 ppm - NOT SAFE FOR WORKERS
(2) provide forced ventilation for all void internal work.
(3) KRAGE IS SAFE FOR IN-SHIPYARD SHIFTING.
(4) TEST RESULTS: (A) TANK (4) CARGO TANKS; 20.8% O₂; 2% CO₂ LEL; > 30 ppm HCL
(B) VOID AND HOPPER SPACES; 20.8% O₂; 0% CO₂ LEL.

KRAGE; HOPPER SPACE; AND } SAFE FOR WORKERS
STEEL VOID } SAFE FOR HOT WORK

Tank (4) Cylindrical/ Cargo Tanks → NOT SAFE FOR WORKERS
SAFE FOR HOT WORK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist

QUALIFICATIONS: Transfer of Ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT: This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-8 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

John W. Sansing
Marine Chemist

4-30-96
Date

Signed

John W. Sansing
Marine Chemist

Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U.S.A.

VESSELS POSTING

HER 01421

John W. Sansing 713-478-4091
1509 Kilgarlin Ln.
Deer Park, Tx. 77536

MARINE CHEMIST CERTIFICATE

SERIAL NO. F 68267

Survey Requested by NECOLES MARINE Vessel Owner or Agent DOW/Kimby Date 4-30-96
Vessel BRIDGE DC-230 Type of Vessel Cylindrical Tank Specific Location of Vessel Ship's Dock
Last Three (3) Cargoes Hydrochloric Acid (3) Tests Performed Oxygen; Carbon Dioxide; HCl; Visual Time Survey Completed 2:30 PM

NOTES: (1) Four (4) Cylindrical / CARGO TANKS REQUIRE
ADDITIONAL VENTILATION - HCl CONCENTRATION
> 30 PPM - NOT SAFE FOR WORKERS
(2) PROVIDE FORCED VENTILATION FOR ALL VOID INTERNAL
WORK.
(3) BRIDGE IS SAFE FOR IN-SHIP AND SHIFTING.
(4) TEST RESULTS: (A) FOUR (4) CARGO TANKS: 20.8% OXYGEN;
ZERO % LEL; > 30 PPM HCl
(B) VOID AND WARPED SPACE: 20.8% OXY-
GEN; ZERO % LEL.

FUEL TANK; WARPED SPACE; AND } SAFE FOR WORKERS
STEEL VOID } SAFE FOR HOT WORK

Four (4) Cylindrical / CARGO TANKS → NOT SAFE FOR WORKERS
SAFE FOR HOT WORK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit; and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or tube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

Name

Company

Date

Signed

Marine Chemist

Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U.S.A.

CUSTOMER COPY

HER 01422

John W. Sansing 713-478-4091
1509 Kilgarlin Ln.
Dear Park, Tx. 77536

MARINE CHEMIST CERTIFICATE

SERIAL NO. F 68267

Survey Requested by HERCULES MARINE Vessel Owner or Agent NEW KIRBY Date 4-30-96
Vessel BARGE DC-230 Type of Vessel Cylindrical / Tank Barge Specific Location of Vessel SLW DOCK
Last Three (3) Cargoes NUCLEONIC HCL Tests Performed Oxygen; Carbon Dioxide; HCL; VISUAL Time Survey Completed 2:30 PM

NOTES: (1) Tank (4) Cylindrical / BARGE TANKS READING
ADDITIONAL VENTILATION - HCL CONCENTRATION
> 30,000 - NOT SAFE FOR WORKERS
(2) PROVIDE FORCED VENTILATION FOR ALL VOID INTERIOR
WORK.
(3) BARGE IS SAFE FOR IN-SHIPMENT SPLITTING.
(4) TEST RESULTS: (A) TANK (4) CARGO TANKS; 20% OXYGEN;
ZERO % LEL; > 30,000 HCL
(B) VOID AND VOIDER SPACE; 20% OXY-
GEN; ZERO % LEL.

FUEL WATER; VOIDER SPACE; AND } SAFE FOR WORKERS
STEAM VOID } SAFE FOR HOT WORK

TANK (4) Cylindrical / CARGO TANKS → NOT SAFE FOR WORKERS
SAFE FOR HOT WORK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or reissue of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

SAFE FOR WORKERS: Means that in the compartment or space so designated: (a) the oxygen content of the atmosphere is at least 19.5 percent by volume; and that, (b) toxic materials in the atmosphere are within permissible concentrations; and that, (c) the residues are not capable of producing toxic materials under existing atmospheric conditions while maintained as directed on the Marine Chemist's Certificate.

NOT SAFE FOR WORKERS: Means that in the compartment or space so designated, the requirements of Safe for Workers have not been met.

ENTER WITH RESTRICTIONS: Means that in any compartment or space so designated, entry for work may be made only if conditions of proper protective equipment, clothing, and time are as specified.

SAFE FOR HOT WORK: Means that in the compartment so designated: (a) oxygen content of the atmosphere is at least 19.5 percent by volume, with the exception of inerted spaces or where external hot work is to be performed; and that, (b) the concentration of flammable materials in the atmosphere is below 10 percent of the lower flammable limit, and that, (c) the residues are not capable of producing a higher concentration than permitted by (b) above under existing atmospheric conditions in the presence of fire, and while maintained as directed on the Marine Chemist's Certificate; and further, that, (d) all adjacent spaces containing or having contained flammable or combustible materials have been cleaned sufficiently to prevent the spread of fire, or are satisfactorily inerted, or, in the case of fuel tanks or lube oil tanks, or engine room or fire room bilges, have been treated in accordance with the Marine Chemist's requirements.

NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

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The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed

Name

Capacity

Date

Signed

Marine Chemist

Certificate No.

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

John W. Sansing 713-478-4091
1509 Kilgarlin Ln.
Deer Park, Tx. 77536

MARINE CHEMIST CERTIFICATE

SERIAL NO. F 68267

HERCULES MARINE
Survey Requested by
BARGE DC-230
Vessel
Nudeochemicals Hauler
Last Three (3) Cargoes
DOW/KIMBLE
Vessel Owner or Agent
Cylindrical / Tank Nipple Back
Type of Vessel
EXPER: CARGO TANKS; HCL;
Tests Performed
VISUAL
4-30-96
Date
SLIP DOCK
Specific Location of Vessel
2:30 PM
Time Survey Completed

NOTES: (1) Tank (4) Cylindrical / CARGO TANKS HEADING
ADDITIONAL VENTILATION - HCL CONCENTRATION
> 30 PPM - NOT SAFE FOR WORKERS
(2) PROVIDE FORCED VENTILATION FOR ALL VOID INTERIOR
WORK.
(3) BARGE IS SAFE FOR IN-SHIPMENT SHIFTING.
(4) TEST RESULTS: (A) TANK (4) CARGO TANKS; ZERO % LEL;
ZERO % LEL; > 30 PPM HCL
(B) VOID AND NIPPLE SPACER; ZERO % LEL;
ZERO % LEL.

FUEL TANK; NIPPLE SPACER; AND } SAFE FOR WORKERS
STEAM VOID } SAFE FOR HOT WORK

TANK (4) Cylindrical / CARGO TANKS → NOT SAFE FOR WORKERS
SAFE FOR HOT WORK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

STANDARD SAFETY DESIGNATIONS (partial list, paraphrased from NFPA 306 Subsections 2-3.1 through 2-3.5, and Subsection 6-3.2)

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NOT SAFE FOR HOT WORK: Means that in the compartment so designated, the requirements of Safe for Hot Work have not been met.

SAFE FOR REPAIR YARD ENTRY: Means that the compartments and spaces of the flammable cryogenic liquid carrier so designated: (a) have been tested by sampling at remote sampling stations, and results indicate the atmosphere tested to be above 19.5 percent oxygen, and less than 10 percent of the lower flammable limit, or (b) are inerted.

CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued.

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed _____
Name _____

Date _____

Signed _____
Marine Chemist

Certificate No. _____

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

John W. Sansing 713-478-4091
1509 Kilgarlin Ln.
Dear Park, Tx. 77536

MARINE CHEMIST CERTIFICATE
SERIAL NO. F 68267

HERCULES MARINE NEW/KINDLY 4-30-96
Survey Requested by Vessel Owner or Agent Date
BARGE DC-230 Cylindrical Tank NIPPON BARGE S/W DOCK
Vessel Type of Vessel Specific Location of Vessel
NIPPON BARGE HULL 13 OPENED; CHARGES/TESTS; HCL; 21.50 PM
Last Three (3) Cargoes Tests Performed VISCOSITY Time Survey Completed

NOTES: (1) Tank (4) Cylindrical / CARGO TANKS READING
ADDITIONAL VENTILATION - HCL CONCENTRATION
> 30.00% - NOT SAFE FOR WORKERS
(2) PROVIDE FORCED VENTILATION FOR ALL VOID INTERIORS
WORK.
(3) BARGE IS SAFE FOR IN-SHIPMENT SHUTTLES.
(4) TEST RESULTS: (A) TANK (1) CARGO TANKS; CHARGES/TESTS;
ZERO % LEL; > 30.00% HCL
(B) VOID AND NIPPON BARGE; CHARGES/TESTS;
ZERO % LEL.

FUEL TANK; NIPPON BARGE; AND } SAFE FOR WORKERS
STEAM VOID } SAFE FOR HOT WORK

TANK (4) Cylindrical / CARGO TANKS → NOT SAFE FOR WORKERS
SAFE FOR HOT WORK

In the event of any physical or atmospheric changes adversely affecting the STANDARD SAFETY DESIGNATIONS assigned to any of the above spaces, or if in any doubt, immediately stop all work and contact the undersigned Marine Chemist.

QUALIFICATIONS: Transfer of ballast or manipulation of valves or closure equipment tending to alter conditions in pipe lines, tanks or compartments subject to gas accumulation, unless specifically approved in this Certificate, requires inspection and endorsement or release of Certificate for the spaces so affected. All lines, vents, heating coils, valves, and similarly enclosed appurtenances shall be considered "not safe" unless otherwise specifically designated.

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CHEMIST'S ENDORSEMENT. This is to certify that I have personally determined that all spaces in the foregoing list are in accordance with NFPA 306 Control of Gas Hazards on Vessels and have found the condition of each to be in accordance with its assigned designation.

"The undersigned acknowledges receipt of this Certificate under Section 2-6 of NFPA 306 and understands conditions and limitations under which it was issued."

This Certificate is based on conditions existing at the time the inspection herein set forth was completed and is issued subject to compliance with all qualifications and instructions.

Signed _____
Name _____ Company _____

Signed _____
Name _____ Certificate No. _____

NOTE: THIS CERTIFICATE IS VALID ONLY ON MARINE VESSELS

20M-2-88

Printed in U.S.A.

HER 01425

HERCULES OFFSHORE CO.

MARINE REPAIR

MARINE OPERATIONS FACILITY

INVOICE NO. _____

ORDER No. 5025

CUSTOMER P.O. _____

DATE	ORDER DATED	ETA
	ARRIVAL	
	COMPLETION DATE	
	DEPARTURE DATE	
M/V <input type="checkbox"/> BARGE <input checked="" type="checkbox"/>		
NAME <u>DC 930</u>		
LOA _____ WIDTH _____		
FOREMAN _____		
LAST PRODUCT <u>hydrochloric acid</u>		
GAS FREEING YES <input type="checkbox"/> NO <input type="checkbox"/> CERTIFICATE REQUIRED YES <input type="checkbox"/> NO <input type="checkbox"/>		
HAUL OUT FOR INSPECTION AND REPAIR YES <input type="checkbox"/> NO <input type="checkbox"/>		
ON WAYS _____ DATE: _____		
ON WAYS _____ DATE: _____		

CUSTOMER	NAME <u>Dixie</u>
	BILLING ADDRESS _____
	CITY AND STATE _____
	PHONE NUMBER _____
WORK AUTHORIZED BY <u>Harvey</u> CITY AUTHORIZED BY _____	
STOCK MATERIAL <input type="checkbox"/> YES <input type="checkbox"/> NO	
IF YES, COMPLETE STOCK MATERIAL TRANSFER TICKET _____	
OUTSIDE SERVICES IF YES, LIST <input type="checkbox"/> YES <input type="checkbox"/> NO	

ITEM NUMBERS

- 1 Pull dip pipe, undo valve and 90. Remove all 4 covers inspect hopper.
- 2 Pump out standing water out off Bow Hake, stern Hake, and Hopper, Remove all 6" Valve, 1 P.R. Valve, 1-2" valve.
- 3 1 Pressure Gauge.
- 4 Pump 25,000 gal. (mixed water + acid) Pumped out to land storage washed cargo tanks (4) for Coast Guard Inspection.
- 5 Blow Dry + Air Vent
- 6 Weld all Fracture on Barge interior. 10
- 7 Patcher 1' x 1' x 3/8"
- 7 Insert 18" 18" x 7/8 9 4 mvs/e 1 Sq Rembet
- 8
- 9
- 10

THIS SHALL SERVE AS YOUR AUTHORIZATION TO PROCEED WITH THE ABOVE.

Signed: Alvaro Duarte

Date: 4-25-86

HER 01426